

(No Model.)

2 Sheets—Sheet 2.

W. N. FLETCHER.

COMBINED DISH WASHER AND CHURN.

No. 319,967.

Patented June 16, 1885.

Fig. 3.

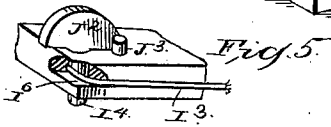
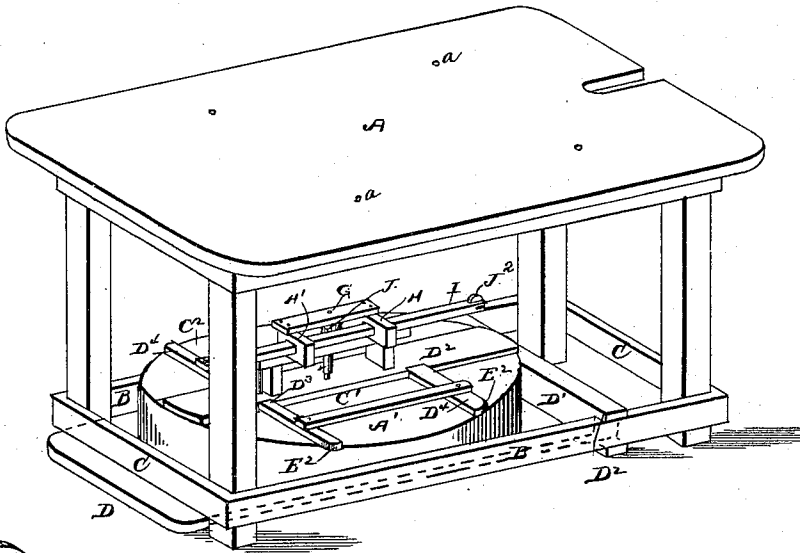
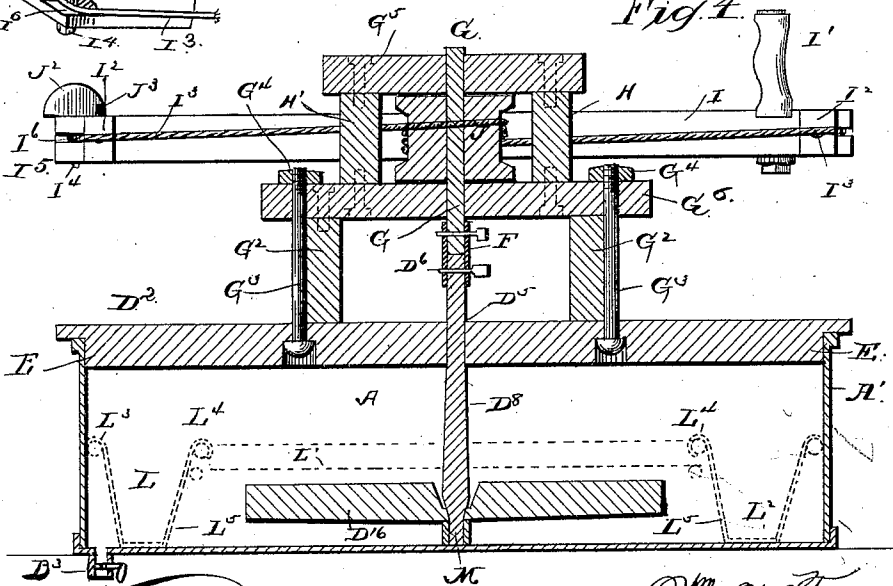


Fig. 4.



WITNESSES

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WILLIAM NELSON FLETCHER, OF RHEA'S MILLS, TEXAS.

COMBINED DISH-WASHER AND CHURN.

SPECIFICATION forming part of Letters Patent No. 319,967, dated June 16, 1885.

Application filed September 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. FLETCHER, a citizen of the United States, residing at Rhea's Mills, in the county of Collin and State of Texas, have invented a new and useful Improvement in Combined Dish-Washer and Churn-Power, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to combined dish-washers and churns; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of the combined churn and dish-washer embodying my improvements, a portion of the body being broken away to show the interior construction. Fig. 2 is a view in perspective of the basket removed from the body to convert the device from a dish-washer to a churn. Fig. 3 is a view in perspective of the combined churn and dish-washer resting on the sliding table beneath the main table when not in use. Fig. 4 is a vertical longitudinal section of the churn-body. Fig. 5 is a detail view of one end of the reciprocating bar, showing the connection of the cord or rope.

Referring by letter to the accompanying drawings, A designates a kitchen-table having parallel braces B B, connected to its legs at opposite sides, and parallel braces C C at the ends, also connecting and strengthening the table-legs.

D designates a sliding table having a cross-piece, D', at its inner end. The cross-piece D' is recessed in each end at D², and the recesses D² receive the parallel side braces, B B, which form the guides for the sliding table D, and permit said table to be moved under the kitchen-table, as shown in Fig. 3. When not in use, the combined churn and dish-washer rests on the sliding table beneath the kitchen-table, and is out of the way of the housewife.

The table-top of the kitchen-table is provided with key-holes a, for keys B', which are employed to hold the churn or dish-washer in place on the kitchen-table during the operation of churning or of washing dishes.

The body of the vessel A' is preferably circular in form, and is made of any suitable ma-

terial, and is provided with a cock, B³, (see Fig. 4,) through which its contents may be drawn off when desired.

The cover for the vessel A' is made in three sections. D², C', and C². The central section, D², carries the mechanism by which the dasher-stem D⁸ and dasher-blade D¹⁶ are operated, and said section D² is rabbeted at its ends in the under face to form shoulders E, which hold it in place on the vessel A. The central section, D², is also provided in its upper face with recesses D³, to receive the projecting ends of cleats D⁴ upon the side sections, C C², of the cover. The projecting ends E² at the arcs of the cover sections C C² rest on the rim of the vessel A, and the vessel is tightly covered by the several cover-sections just described.

The central section, D², is provided at its middle with an opening, D⁵, (see Fig. 4,) through which the dasher-stem D⁸ is passed from below upward, and is detachably connected by a key, D⁶, within a vertical sleeve, F, keyed to the lower end of the drum shaft G.

The frame G⁶, that furnishes the bearings for the drum-shaft G, is secured upon blocks G², resting on the middle section, D², of the cover, by bolt-rods G³ and nuts G⁴, and the upper bearing, G⁵, for the drum-shaft G is secured upon the slotted guide-arms H H', in which the reciprocating bar I is operated. The reciprocating bar I is provided near one end with a handle, I'. Near each end the bar I is provided with a projection, I². (See Fig. 4.) At the end of the lever I opposite the handle I' a cord or rope, I³, is connected to a wooden key, J², resting in a vertical groove, I⁴. The end I² of the bar I is provided with horizontal kerf or recess I⁶, through which the cord I³ passes. The cord I³ passes through a hole, as shown in Fig. 4, in the drum J, and is wound several times around said drum J. From the drum J the cord I³ passes to the other end of the reciprocating bar I and over the projection I², to which it is secured. The other end of the rope I³ is passed through a hole in the stem of the thumb-key J³, Fig. 4, which may be turned to tighten the cord or rope by simply raising the finger-piece of the key above the head of the stop-screw J³, then turning the thumb-key to tighten the cord, and finally placing the key back into engagement with the stop J³.

The device as far as now described is ready for use as a churn when keyed in place on the kitchen-table.

To convert it into a dish-washing machine,
 5 I provide a woven-wire basket, L, the central portion of which forms an open-work table, L', which is surrounded by an annular pocket, L², the outer wire ring, L³, of which is connected to the upper inner ring, L⁴, by binding-
 10 wire L⁵, to hold the basket L in shape when the dishes are in place. The basket L is so located that the dishes are entirely above the water, which is thrown up by the action of the dasher and effects a thorough cleaning of
 15 the dishes, and when the dasher stops the water drips from the dishes and the heat arising from the water dries them thoroughly, as the heat is retained by the dishes. The device, being dust and fly proof, may be also used as
 20 a meat-safe when not in use as a churn or dish-washer.

The adjustable blade of the dasher is merely a paddle with a detachable handle, and is easily kept clean, and when operated makes several complete revolutions in one direction, and
 25 afterward a similar number of revolutions in the opposite direction.

The vessel is made steam-tight, and is very effectual when in operation as a dish-washer.

30 The lower end of the dasher-stem is journaled in a vertical bearing, M, at the center of the body of the vessel A', so that the strain upon it is divided between its bearings.

35 The sections of the cover at the sides of the central section may be provided with handles (not shown) for convenience in removing them from the vessel and replacing them when necessary.

Having thus fully described my invention, what I claim as new, and desire to secure by 40 Letters Patent of the United States, is—

1. The combination, with the table A, provided with the thumb-keys, of the vessel A', provided with the sectional cover, the central section, D², of which is provided with the 45 frame, the drum-shaft G', the drum J, the removable dasher-stem and dasher-blade, the reciprocating lever provided with the handle and tightening-key, and the cord connecting the reciprocating lever and the drum, substantially as specified. 50

2. The combination, with vessel A' and the removable sectional cover, of the central section, D², provided with the frame having slotted guide-arms H H', the drum-shaft G, the reciprocating lever I, with projections I², the 55 rope I³, and the tightening-key J² and stop-screw J³, substantially as specified.

3. The vessel A', in combination with the dasher working therein, the frame having slotted guide-arms H H', the drum, the reciprocating lever I, working through the slots of the arms, and the cord connecting the drum with the ends of the lever, as set forth. 60

4. The combination, with the vessel A', of 65 the dasher and the open-work basket comprising the annular pocket and the central raised table, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 70 presence of two witnesses.

WILLIAM NELSON FLETCHER.

Witnesses:

J. P. DOWELL,
 E. H. CROUCH.